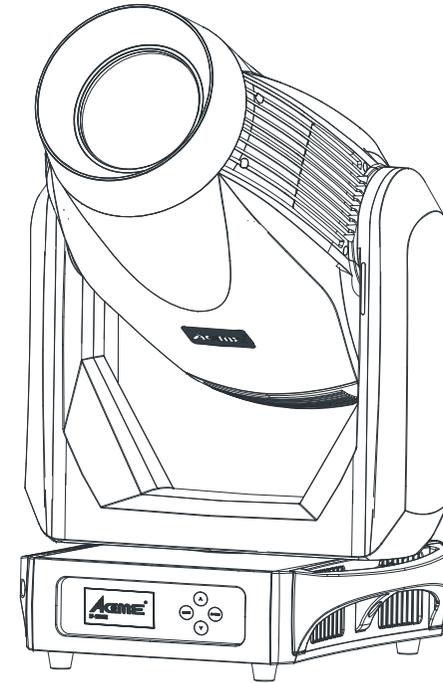


ACME[®]



XP-1000SZ T

Innovation, Quality, Performance

User Manual

Please read the instruction carefully before use

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Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth and use normal glass to clean liquid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Maintenance Schedule:

To make sure that the fixture is running well and has less failures and higher performance, longer life time, safer running, the fixture should be checked and maintained periodically. Below chart is for your reference.

	Part Description	750hrs	1500hrs	2250hrs	3000hrs
FIXTURE HEAD	Lamp	R/A	R/A	R/A	R/A
	Radiator	C	C	C	C
	Color wheel module	C	C	C	C
	Lens	C	C	C	C
	Optical module	C	C	C	C
	Zoom focus module	C/L	C/L	C/L	C/L
BASE	Radiator	C	C	C	C
	Tilt belt	A	A	A	A
	Pan belt	A	A	A	A

Code	
R	Replace
C	Clean
L	Lubricate
A	Adjust

1. Safety Instruction



WARNING

Please read the instruction manual carefully which includes important information about the installation, usage and maintenance.

Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully that there is no transportation damage before using the unit.
- The unit is for indoor use only. Use only in a dry location.
- Do install and operate by qualified operator.
- Do not allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots are blocked; otherwise the unit will be overheated.
- Before operating, ensure that the voltage and frequency of power supply matches the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Maximum ambient temperature TA: 40°C. Don't operate it when the temperature is higher.
- Don't connect the device to any dimmer pack.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Make sure there are no flammable materials close to the unit while operating to avoid fire hazard.
- Examine the power wires carefully; replace them immediately if there is any damage.
- Unit's surface temperature may reach up to 85°C. Don't touch the housing bare-handed during its operation, and allow about 15 minutes for cooling the unit down before replacing bulb or maintenance as it could be very hot.
- Avoid any inflammable liquids, water or metal objects entering the unit. Once it happens, cut off the mains power immediately.

- Do not operate in dirty or dusty environment; do clean the fixture regularly.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires twist other cables.
- The minimum distance between light output and the illuminated surface must be more than 12 meters.
- Disconnect mains power before fuse/lamp replacement or servicing.
- Replace fuse/lamp only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- Do not open the unit as there are no user serviceable parts inside.
- Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect the mains power if the fixture is has not been used for a long time.
- Do use the original packing materials before transporting it once again.
- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Hot lamp explosion hazard. Do not open the unit within 15 minutes after switching off.
- Do replace the bulb once it is damaged, deformed or life-expired.
- Do not look directly at the light while the bulb is on.
- Never touch bulb with bare fingers, as it is very hot after using.
- Do not start on the unit without bulb enclosure or when housing is damaged.

2. Technical Specification

◆ Power supply:

AC 230V, 50Hz

◆ Power Consumption:

1330W

◆ Lamp:

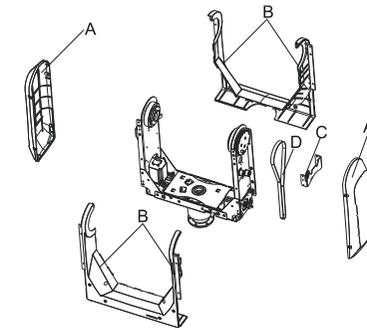
OSRAM Lok-it HTI1000/PS

◆ Optical system:

-High efficient Optical system.

tight as it is can easily rupture.

5. Reverse the procedures from step 3 to 2.



8. Check, Cleaning and Maintenance Schedule

Check:



Ballast

- A. Do check the fixtures every two months and make sure that all the screws and terminals have been locked firmly to make sure the normal performance of the fixtures. Negligence of check would cause malfunction of the fixture.
- B. As the pictures shown above, please replace the cable or cable joints immediately once they've aged and turned easy to break.

Cleaning:

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates:

damage or interference to DMX interface circuit.

C. One of the channels is not working well

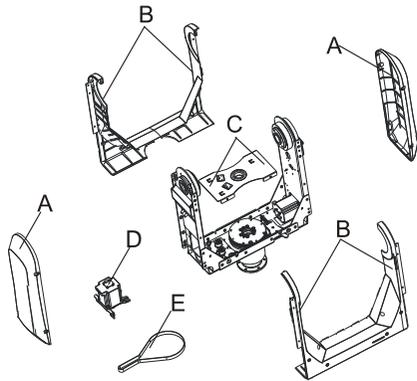
1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

D. The lamp is cutting out intermittently

1. The lamp is not working well. Check the mains voltage either too high or too low.
2. Internal temperature may be too high. Check if replacement of fan is needed on the head.

E. If The pan belt is broken

1. Turn off the mains power.
2. Loosen all the screws (AB), open the cover (C).
3. Loosen the screws (D).
4. Unplug all the connect wires over the belt.
5. Change a new belt (E), put the belt around the axis gear and motor gear.
6. Plug all the connect wires back upon the belt.
7. Tighten all the screws.



F. If The tilt belt is broken

1. Turn off the mains power.
2. Loosen all the screws (AB).
3. Loosen the screws (C) that fix the bridge.
4. Change a new belt (D). Please adjust the tension of the belt properly. Note: do not fix the belt too

- Delivering extremely powerful output.
- High quality lens.

◇ Movement:

- Pan: 540°
- Tilt: 270°
- Pan/Tilt moving speed adjustable
- Automatic Pan/Tilt correction.
- Easy calibration and maintenance by magnetic home positioning.
- Pan/Tilt position lock for transporting protection.

◇ Dimmer/Shutter:

- Mechanical dimmer
- Mechanical shutter and adjustable speed strobe effect

◇ Color wheel:

- Color wheel: 6 fixed colors
- Rainbow effect in both directions.
- Easy calibration and maintenance by magnetic home positioning

◇ Gobo wheel:

- Gobo Wheel: 2 rotation gobos with 5 gobos plus white
- 1 Static gobo wheel with 4 gobos plus 135° effect gobo
- Easy calibration and maintenance by magnetic home positioning

◇ Prism:

- Five facet prism, rotating in both direction

◇ Focus:

- Electronic

◇ Cooling:

- Fan cooling

◇ Beam Angle:

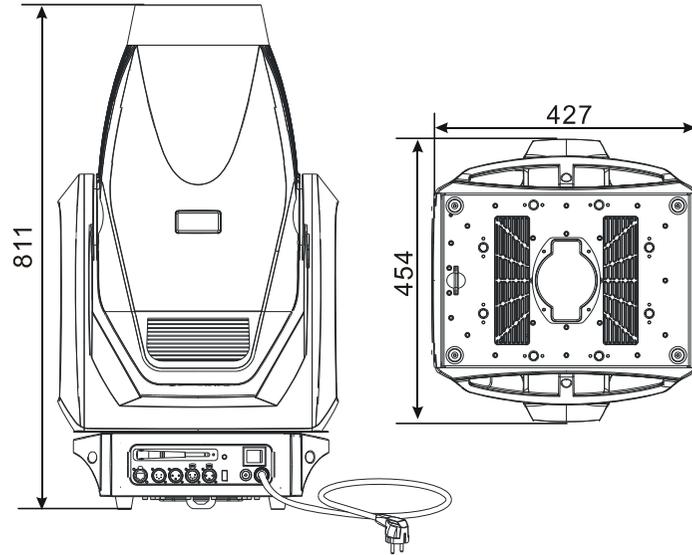
- 9° ~ 61°

◇ Weight:

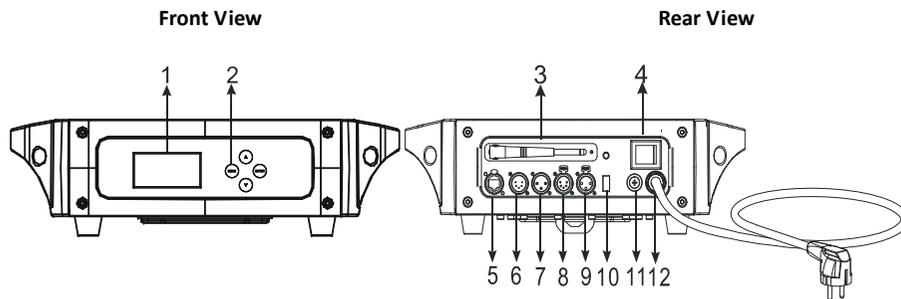
40.0Kgs

◆ Dimension:

454 × 427 × 811mm



3. Control Panel



1. FUNCTION DISPLAY:

Shows the various menus and the selected functions;

19	0 – 255	TILE FINE
20	0 – 255	PAN/TILE SPEED: Fast → slow
21	0 – 9 10 – 14 15 – 29 30 – 34 35 36 – 37 38 – 39 40 – 44 45 – 49 50 – 104 105 – 109 110 – 115 116 – 124 125 – 126 127 – 134 135 – 255	SPECIAL FUNCTIONS: No function Reset all Reset effect Reset Pan/Tilt Fan Speed Quiet Fan Speed Auto Fan Speed Fast Lamp on Lamp Off No function Focus Compensate On Focus Compensate Off No function Lamp Full Power Lamp Half Power No function

7. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

1. Check the connect power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED to see if it can be light up or not.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if they are linked properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check to see if the DMX cables run near or run alongside high voltage cables that may cause

	20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	Gobo 2-3 Gobo 2-4 Gobo 2-5 Gobo 2-1 rotation Gobo 2-2 rotation Gobo 2-3 rotation Gobo 2-4 rotation Gobo 2-5 rotation Gobo 2-1 shake, slow → fast Gobo 2-2 shake, slow → fast Gobo 2-3 shake, slow → fast Gobo 2-4 shake, slow → fast Gobo 2-5 shake, slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
9	0 – 2 3 – 125 126 – 128 129 – 252 253 – 255	GOBO WHEEL 2 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
10	0 – 255	GOBO WHEEL 2 ROTATION FINE
11	1 – 175 176-199 200-255	FROST/PRISM: Frost Rotation Prism 0° -360°
12	0 – 2 3 – 126 127 – 129 130 – 253 254 – 255	R-PRISM: Stay at 0° position CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stay at 45° position
13	0 – 255	IRIS: 100% → 0%
14	0 – 255	FOCUS: Far → near
15	0 – 255	ZOOM: Wide → narrow
16	0 – 255	PAN: 0° → 540°
17	0 – 255	PAN FINE:
18	0 – 255	TILE: 0° → 270°

2. BUTTON:

MENU	To select the programming functions
▲	To go backward in the selected functions
▼	To go forward in the selected functions
ENTER	To confirm the selected functions

3. WIRELESS RECEIVER:

Receives the wireless DMX signal.

4. POWER SWITCH:

Turns On/Off the power;

5. ETHERNET:

Transfers fixture's information to a main controller;

6. DMX IN:

DMX 512 operation, use 5-pin XLR cable to link the unit and DMX controller;

7. DMX IN:

DMX 512 link, use 3-pin XLR cable to link the unit and DMX controller;

8. DMX OUT:

DMX 512 operation, use 5-pin XLR cable to link the next units;

9. DMX OUT:

DMX 512 operation, use 3-pin XLR cable to link the next units;

9. BATTERY DISPLAY:

Shows the battery status;

10. USB:**11. FUSE (AC250V/T 15A):**

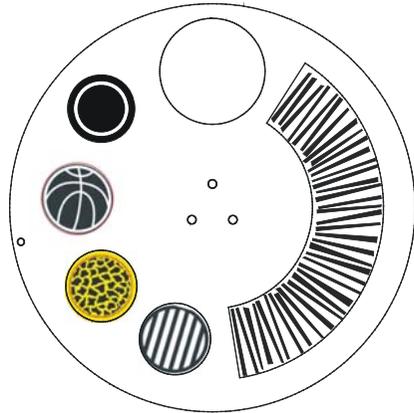
Protect the unit from damage of over voltage or short circuit;

12. POWER:

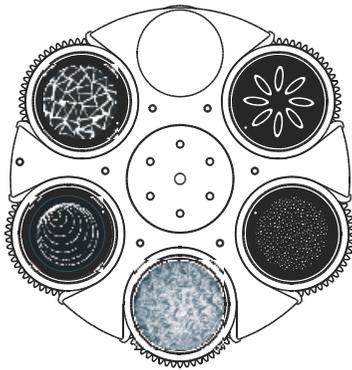
Connect to the mains supply;

4. Gobo Wheel and Lamp

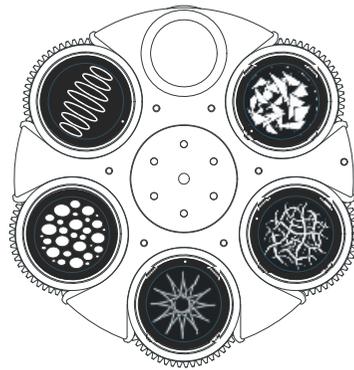
4.1 Gobo Wheel



Static gobo wheel



Rotation gobo wheel 1



Rotation gobo wheel 2

DANGER!
Install/change the gobo-wheel with the device switched off only.

21Channels (Mode 5):

CHANNEL	VALUE	FUNCTION		
1	0 – 19	STROBE: Shutter closed, lamp switches to low power Shutter Open Strobe: slow → fast Shutter Open Random strobe, slow → fast		
	20 – 49			
	50 – 200			
	201 – 210			
	211 – 255			
2	0 – 255	DIMMER: 0% → 100%		
			3	0 – 255
4		RESERVED		
5	0 – 9	GOBO WHEEL 2: Open Gobo1-1 Gobo 1-2 Gobo 1-3 Gobo 1-4 Gobo 1-5 Gobo 1-1 rotation Gobo 1-2 rotation Gobo 1-3 rotation Gobo 1-4 rotation Gobo 1-5 rotation Gobo 1-1 shake, slow → fast Gobo 1-2 shake, slow → fast Gobo 1-3 shake, slow → fast Gobo 1-4 shake, slow → fast Gobo 1-5 shake, slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast		
	10 – 14			
	15 – 19			
	20 – 24			
	25 – 29			
	30 – 34			
	35 – 39			
	40 – 44			
	45 – 49			
	50 – 54			
	55 – 59			
	60 – 89			
	90 – 119			
	120 – 149			
	150 – 179			
	180 – 209			
	210 – 232			
	233 – 255			
	6		0 – 2	GOBO WHEEL 1 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
			3 – 125	
126 – 128				
129 – 252				
253 – 255				
7	0 – 255	GOBO WHEEL 1 ROTATION FINE		
8	0 – 9	GOBO WHEEL 2: Open Gobo 2-1 Gobo 2-2		
	10 – 14			
	15 – 19			

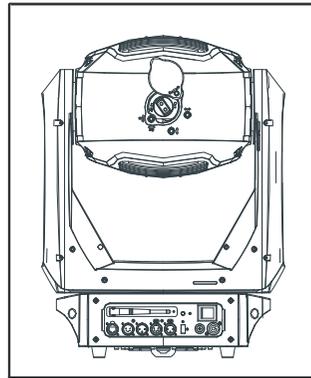
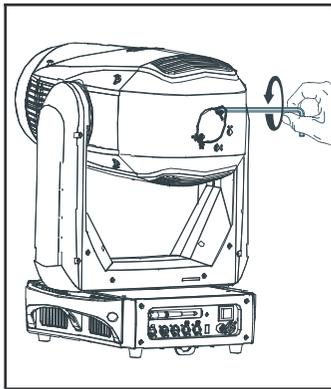
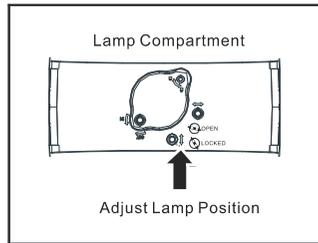
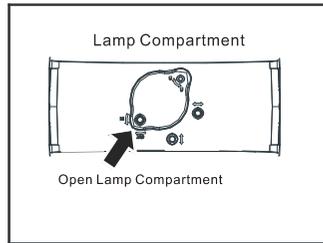
	210 – 232 233 – 255	Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
12	0 – 2 3 – 125 126 – 128 129 – 252 253– 255	GOBO WHEEL 2 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
13	0 – 255	GOBO WHEEL 2 ROTATION FINE
14	0 – 255	FROST/PRISM: 0% → 100%
15	0 – 2 3 – 126 127 – 129 130 – 253 254 – 255	R-PRISM: Stay at 0° position CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stay at 45° position
16	0 – 255	IRIS: 100% → 0%
17	0 – 255	FOCUS: Far → near
18	0 – 255	ZOOM: Wide → narrow
19	0 – 255	PAN: 0° → 540°
20	0 – 255	PAN FINE
21	0 – 255	TILE: 0° → 270°
22	0 – 255	TILE FINE
23	0 - 255	PAN/TILE SPEED: Fast → slow
24	0 - 255	CMY SPEED: Fast → slow

4.2 Lamp

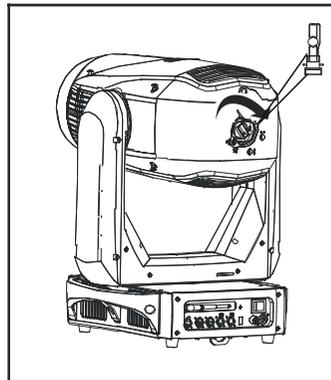
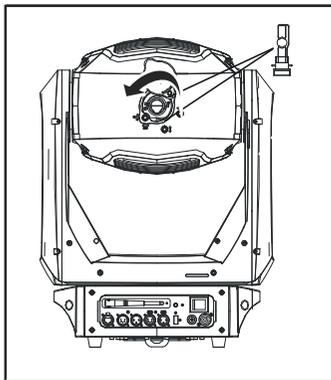
OSRAM:

1. Because of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the eyes and skin. The high luminance of the arc can cause severe damage to the retina if you take a close look at the lamp.
2. To protect the lamp, always turn off the lamp first (via control panel or DMX controller) and let the unit run at least five minutes to cool down before switching off the mains supply. Never handle the lamp or luminary when it is hot.
3. Do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.
4. The lamp generates UV radiation. Never operate the lamp without appropriate shielding.
5. When lining up, the lamp operates at high pressure and there is a slight risk of arc tube rupture. The risk increases with age, temperature and improper handling of the lamp. Do not use the lamp longer than its lifespan.
6. Make sure the lamp is located in the center of the reflector for the best projection.

4.3 Change The Lamp



Loosen the screw at the rear side of the fixture and open the lamp compartment cover.



Remove the old lamp and turn the lamp left in order to take the lamp out, put a new lamp that

	244 – 247 248 – 251 252 – 255	Random color: Fast Random color: Medium Random color: Slow
8	0 – 9 10 – 14 15 – 19 20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	GOBO WHEEL1: Open Gobo1-1 Gobo 1-2 Gobo 1-3 Gobo 1-4 Gobo 1-5 Gobo 1-1 rotation Gobo 1-2 rotation Gobo 1-3 rotation Gobo 1-4 rotation Gobo 1-5 rotation Gobo 1-1 shake, slow → fast Gobo 1-2 shake, slow → fast Gobo 1-3 shake, slow → fast Gobo 1-4 shake, slow → fast Gobo 1-5 shake, slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
9	0 – 2 3 – 125 126 – 128 129 – 252 253 – 255	GOBO WHEEL 1 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
10	0 – 255	GOBO WHEEL 1 ROTATION FINE
11	0 – 9 10 – 14 15 – 19 20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209	GOBO WHEEL 2: Open Gobo 2-1 Gobo 2-2 Gobo 2-3 Gobo 2-4 Gobo 2-5 Gobo 2-1 rotation Gobo 2-2 rotation Gobo 2-3 rotation Gobo 2-4 rotation Gobo 2-5 rotation Gobo 2-1 shake, slow → fast Gobo 2-2 shake, slow → fast Gobo 2-3 shake, slow → fast Gobo 2-4 shake, slow → fast Gobo 2-5 shake, slow → fast

24Channels (Mode 4):

CHANNEL	VALUE	FUNCTION
1	0 – 19	STROBE: Shutter closed, lamp switches to low power
	20 – 49	Shutter Open
	50 – 200	Strobe: slow → fast
	201 – 210	Shutter Open
	211 – 255	Random strobe, slow → fast
2	0 – 255	DIMMER: 0% → 100%
3	0 – 255	CYAN: 0% → 100%
4	0 – 255	MAGENTA: 0% → 100%
5	0 – 255	YELLOW: 0% → 100%
6	0 – 255	CTO: 6000K → 3200K
7	0	COLOR WHEEL: Open
	1 – 14	Open → color1
	15	Color1
	16 – 29	Color1 + color2
	30	Color2
	31 – 44	Color2 + color3
	45	Color3
	46 – 59	Color3 + color4
	60	Color4
	61 – 74	Color4 + color5
	75	Color5
	76 – 89	Color5 + color6
	90	Color6
	91 – 104	Color6 → Open
	105 – 140	Open
	141 – 145	Color1
	146 – 150	Color2
	151 – 155	Color3
	156 – 160	Color4
	161 – 165	Color5
166 – 170	Color6	
171 – 185	Open	
186 – 211	CW Rotation, fast → slow	
212 – 217	Stop	
218 – 243	CCW Rotation, slow → fast	

must be the same type as the old one. And then place the new lamp into the lamp holder and turn the lamp right in order to fix. Finally reinstall the lamp compartment cover, fastening it securely before turning on power.

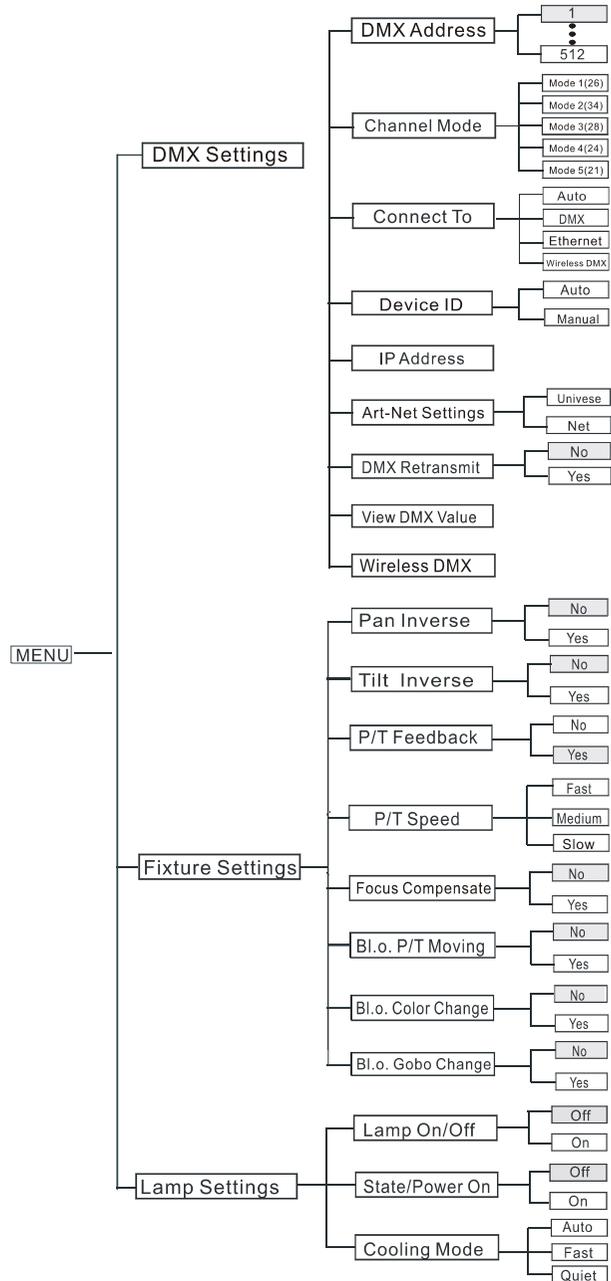
5. How To Set The Unit

5.1 Main Function

Turn on the unit, press the **MENU** button into menu mode, and press the **UP/DOWN** button until the required function is shown on the monitor. Select the function by the **ENTER** button. Use the **UP/DOWN** button to choose the submenu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button or let the unit idle one minute to exit menu mode.

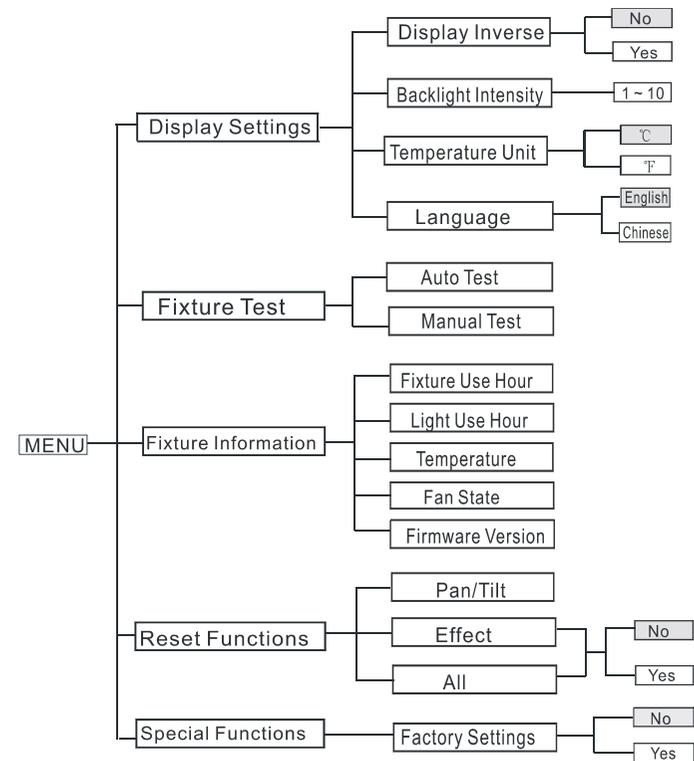
In the event of disconnecting with mains power, press the **UP** button for one minute to enter into menu mode. Press **MENU** button or let the unit idle one minute to exit.

The main functions are shown below (the grayed boxes are preset settings) :



19	0 – 255	GOBO WHEEL 3
20	0 – 255	GOBO WHEEL 3 SPEED: Speed: slow → fast
21		RESERVED
22	0 – 255	IRIS: 100% → 0%
23	0 – 19 20 – 49 50 – 200 201 – 210 211 – 255	STROBE: Closed Open Strobe: slow → fast Open Random strobe, slow → fast
24	0 – 255	FOCUS: Far → near
25		RESERVED
26		RESERVED
27		RESERVED
28	0 – 9 10 – 14 15 – 29 30 – 34 35 36 – 37 38 – 39 40 – 44 45 – 49 50 – 104 105 – 109 110 – 115 116 – 124 125 – 126 127 – 134 135 – 255	SPECIAL FUNCTIONS: No function Reset all Reset effect Reset Pan/Tilt Fan Speed Quiet Fan Speed Auto Fan Speed Fast Lamp on Lamp Off No function Focus Compensate On Focus Compensate Off No function Lamp Full Power Lamp Half Power No function

	40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	Gobo 1-1 rotation Gobo 1-2 rotation Gobo 1-3 rotation Gobo 1-4 rotation Gobo 1-5 rotation Gobo 1-1 shake, slow → fast Gobo 1-2 shake, slow → fast Gobo 1-3 shake, slow → fast Gobo 1-4 shake, slow → fast Gobo 1-5 shake, slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
14	0 – 2 3 – 125 126 – 128 129 – 252 253 – 255	GOBO WHEEL 1 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
15	0 – 255	GOBO WHEEL 1 ROTATION FINE
16	0 – 9 10 – 14 15 – 19 20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	GOBO WHEEL 2: Open Gobo 2-1 Gobo 2-2 Gobo 2-3 Gobo 2-4 Gobo 2-5 Gobo 2-1 rotation Gobo 2-2 rotation Gobo 2-3 rotation Gobo 2-4 rotation Gobo 2-5 rotation Gobo 2-1 shake, slow → fast Gobo 2-2 shake, slow → fast Gobo 2-3 shake, slow → fast Gobo 2-4 shake, slow → fast Gobo 2-5 shake, slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
17	0 – 2 3 – 125 126 – 128 129 – 252 253 – 255	GOBO WHEEL 2 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
18	0 – 255	GOBO WHEEL 2 ROTATION FINE



DMX Settings

To select **DMX Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, **Channel Mode**, **Connect To**, **Device ID**, **IP Address**, **Art-Net Setting**, **DMX Retransmit** or **View DMX Value**.

DMX Address

To select **DMX Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **1** to **512**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Channel Mode

To select **Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **26 Channel**, **34 Channel**, **28 Channel**, **24 Channel** or **21 Channel** mode, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Connect To

To select **Connect To**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto**, **DMX**, **Art-Net** or **Wireless DMX**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Device ID

To select **Device ID**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto** or **Manual**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

IP Address

To select **IP Address**, press the **ENTER** button to confirm and the display will show the current IP Address of the unit. To go back to the functions press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

Art-net Setting

To select **Art-net Setting**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Universe** or **Net**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

7	0 – 255	ZOOM: Wide → narrow
8	0 – 255	CTO: 6000K-3200K
9	0 – 255	CYAN: 0% → 100%
10	0 – 255	YELLOW: 0% → 100%
11	0 – 255	MAGENTA: 0% → 100%
12	0 1 – 14 15 16 – 29 30 31 – 44 45 46 – 59 60 61 – 74 75 76 – 89 90 91 – 104 105 – 140 141 – 145 146 – 150 151 – 155 156 – 160 161 – 165 166 – 170 171 – 185 186 – 211 212 – 217 218 – 243 244 – 247 248 – 251 252 – 255	COLOR WHEEL: Open Open → color1 Color1 Color1 + color2 Color2 Color2 + color3 Color3 Color3 + color4 Color4 Color4 + color5 Color5 Color5 + color6 Ccolor6 Color6 + Open Open Color1 Color2 Color3 Color4 Color5 Color6 Open CW Rotation, fast → slow Stop CCW Rotation, slow → fast Random color: Fast Random color: Medium Random color: Slow
13	0 – 9 10 – 14 15 – 19 20 – 24 25 – 29 30 – 34 35 – 39	GOBO WHEEL 1: Open Gobo1-1 Gobo 1-2 Gobo 1-3 Gobo 1-4 Gobo 1-5

24	0 – 255	FOCUS FINE
25	0 – 255	PAN: 0° → 540°
26	0 – 255	PAN FINE
27	0 – 255	TILT: 0° → 270°
28	0 – 255	TILT FINE
29	0 – 9 10 – 14 15 – 29 30 – 34 35 36 – 37 38 – 39 40 – 44 45 – 49 50 – 104 105 – 109 110 – 115 116 – 124 125 – 126 127 – 134 135 – 255	SPECIAL FUNCTIONS: No function Reset all Reset effect Reset Pan/Tilt Fan Speed Quiet Fan Speed Auto Fan Speed Fast Lamp on Lamp Off No function Focus Compensate On Focus Compensate Off No function Lamp Full Power Lamp Half Power No function
30~34		RESERVED

28Channels (Mode 3):

CHANNEL	VALUE	FUNCTION
1	0 – 255	DIMMER: 0% → 100%
2	0 – 255	PAN: 0° → 540°
3	0 – 255	PAN FINE
4	0 – 255	TILE: 0° → 270°
5	0 – 255	TILE FINE
6		RESERVED

DMX Retransmit

To select **DMX Retransmit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (DMX Retransmit), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to view the DMX channel value. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Settings

To select **Fixture Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan Inverse**, **Tile Inverse**, **P/T Feedback**, **P/T Speed**, **Auto Focus**, **BL.O. P/T Moving**, **BL.O. Color Change** or **BL.O. Gobo Change**.

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (pan inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (tilt inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (Pan or tilt's position will not feedback while out of step) or **Yes** (Feedback while pan/tilt out of step), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

P/T Speed

To select **P/T Speed**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Fast**, **Medium** or **Slow**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Focus Compensate

To select **Focus Compensate**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (Focus Compensate), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

BL.O. P/T Moving

To select **BL.O. P/T Moving**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal while pan/tilt moving) or **Yes** (blackout while pan/tilt moving), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

BL.O. Color Change

To select **BL.O. Color Change**, press the **ENTER** button to confirm. Use **UP/DOWN** button to select **No** (normal while changing color) or **Yes** (blackout while color changing), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

BL.O. Gobo Change

To select **BL.O. Gobo Change**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal while changing gobo) or **Yes** (blackout while gobo changing), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Lamp Settings

To select **Lamp Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Lamp On/Off**, **State/Power on** or **Cooling Mode**.

Lamp On/Off

To select **Lamp On/Off**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Off** (lamp off) or **On** (lamp on), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

State/Power On

To select **State/Power On**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Off** (Lamp off while power on) or **On** (Lamp on while power on), press the **ENTER** button to store.

	116 – 120 121 – 125 126 – 130 131 – 135 136 – 140 141 – 145 146 – 150 151 – 155 156 – 160 161 – 189 190 191 – 219 220 – 226 227 – 229 230 – 232 233 – 235 236 – 238 239 – 241 242 – 243 244 – 246 247 – 249 250 – 252 253 – 255	Gobo 3-2 Gobo 3-3 Gobo 3-4 Position 1 Position 2 Position 3 Position 4 Position 5 Open CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stop Animation Effect 1 Animation Effect 2 Animation Effect 3 Animation Effect 4 Animation Effect 5 Animation Effect 6 Animation Effect 7 Random Gobo or Position Random Gobo Random Position
16	0 – 10 11 – 255	GOBO WHEEL 3 SPEED: Stop Speed: Slow → fast
17	0 – 255	FROST: 0% → 100%
18	0 – 10 11 – 138 139 - 552	PRISM: Closed Prism Indexing Prism Rotation
19	0 – 2 3 – 126 127 – 129 130 – 253 254 – 255	R-PRISM: Stay at 0° position CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stay at 45° position
20	0 – 255	IRIS: 100% → 0%
21	0 – 255	ZOOM: Wide → narrow
22	0 – 255	ZOOM FINE
23	0 – 255	FOCUS: Far → near

	15 – 19 20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	Gobo 2-2 Gobo 2-3 Gobo 2-4 Gobo 2-5 Gobo 2-1 rotation Gobo 2-2 rotation Gobo 2-3 rotation Gobo 2-4 rotation Gobo 2-5 rotation Gobo 2-1 shake, slow → fast Gobo 2-2 shake, slow → fast Gobo 2-3 shake, slow → fast Gobo 2-4 shake, slow → fast Gobo 2-5 shake, slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
13	0 – 2 3 – 125 126 – 128 129 – 252 253– 255	GOBO WHEEL 2 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
14	0 – 255	GOBO WHEEL 2 ROTATION FINE
15	0 1 – 9 10 11 – 19 20 21 – 29 30 31 – 39 40 41 – 49 50 51 – 59 60 61 – 69 70 71 – 79 80 81 – 89 90 91 – 99 100 – 110 111 – 115	GOBO WHEEL 3: Open Open → Gobo 3-1 Gobo 3-1 Gobo 3-1 → Gobo 3-2 Gobo 3-2 Gobo 3-2 → Gobo 3-3 Gobo 3-3 Gobo 3-3 → Gobo 3-4 Gobo 3-4 Gobo 3-4 → Position1 Position 1 Position 1 → Position 2 Position 2 Position 2 → Position 3 Position 3 Position 3 → Position 4 Position 4 Position 4 → Position 5 Position 5 Position 5 → Open Open Gobo 3-1

Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Cooling Mode

To select **Cooling Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto**, **Fast** or **Quiet**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Display Settings

To select **Display Settings**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Display Inverse**, **Backlight Intensity** or **Temperature Unit**.

Display Inverse

To select **Display Inverse**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **No** (normal) or **Yes** (display inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Backlight Intensity

To select **Backlight Intensity**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the value from **1** to **10**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Temperature Unit

To select **Temperature Unit**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **°C** or **°F**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture Test

To select **Fixture Test**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

To select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test pan, tilt, shutter, color, gobo, gobo rotation, prism, prism rotation, focus, dimmer and lamp on/off. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

To select **Manual Test**, press the **ENTER** button to confirm, the present channel will show on the display, use the **UP/DOWN** button to select channel, press the **ENTER** button to confirm, then use the **UP/DOWN** button to adjust the value, press the **ENTER** button to store, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode idling one minute.

(All channels value will become 0 after exiting Manual Test menu)

Fixture Information

To select **Fixture Information**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Fixture Use Hour**, **Light Use Hour**, **Fixture State** or **Firmware Version**.

Fixture Use Hour

Select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use time will show on the display, press the **MENU** button to exit.

Light Use Hour

To select **Light Use Hour**, press the **ENTER** button to confirm, lamp on time will show on the display, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Exit** or **Reset Time**, press the **ENTER** button to confirm. Press the **MENU** button back to the last menu or exit menu mode idling one minute.

Fixture State

Select **Fixture State**, press the **ENTER** button to confirm, fixture state will show on the display, press the **MENU** button to exit.

Firmware Version

To select **Firmware Version**, press the **ENTER** button to confirm, firmware version will show on the display, press the **MENU** button back to exit.

Reset Functions

To select **Reset Function**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Pan/Tilt**, **Effect** or **All**.

Pan/Tilt —Reset Pan/Tilt

	76 – 89 90 91 – 104 105 – 140 141 – 145 146 – 150 151 – 155 156 – 160 161 – 165 166 – 170 171 – 185 186 – 211 212 – 217 218 – 243 244 – 247 248 – 251 252 – 255	Color 5 + Color 6 Color 6 Color 6 → Open Open Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Open CW Rotation, fast → slow Stop CCW Rotation, slow → fast Random color: Fast Random color: Medium Random color: Slow
9	0 – 9 10 – 14 15 – 19 20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	GOBO WHEEL 1: Open Gobo 1-1 Gobo 1-2 Gobo 1-3 Gobo 1-4 Gobo 1-5 Gobo 1-1 Rotation Gobo 1-2 Rotation Gobo 1-3 Rotation Gobo 1-4 Rotation Gobo 1-5 Rotation Gobo 1-1 shake: slow → fast Gobo 1-2 shake: slow → fast Gobo 1-3 shake: slow → fast Gobo 1-4 shake: slow → fast Gobo 1-5 shake: slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
10	0 – 2 3 – 125 126 – 128 129 – 252 253– 255	GOBO WHEEL 1 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
11	0 – 255	GOBO WHEEL 1 ROTATION FINE:
12	0 – 9 10 – 14	GOBO WHEEL 2 Open Gobo 2-1

	38 – 39	Fan Speed Fast
	40 – 44	Lamp on
	45 – 49	Lamp Off
	50 – 104	No function
	105 – 109	Focus Compensate On
	110 – 115	Focus Compensate Off
	116 – 124	No function
	125 – 126	Lamp Full Power
	127 – 134	Lamp Half Power
	135 – 255	No function

34Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	0 – 19	STROBE: Shutter closed, lamp switches to low power
	20 – 49	Shutter Open
	50 – 200	Strobe, slow → fast
	201 – 210	Shutter Open
	211 – 255	Random strobe, slow → fast
2	0 – 255	DIMMER 0% → 100%
3	0 – 255	DIMMER FINE
4	0 – 255	CYAN: 0% → 100%
5	0 – 255	MAGENTA: 0% → 100%
6	0 – 255	YELLOW: 0% → 100%
7	0 – 255	CTO: 6000K → 3200K
8	0	COLOR WHEEL: Open
	1 – 14	Open → Color 1
	15	Color 1
	16 – 29	Color 1 + Color 2
	30	Color 2
	31 – 44	Color 2 + Color 3
	45	Color 3
	46 – 59	Color 3 + Color 4
	60	Color 4
	61 – 74	Color 4 + Color 5
75	Color 5	

To select **Pan/Tilt**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset pan and tilt to their home positions) or **No**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Effect

To select **Effect**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset shutter to their home positions) or **No**, and press the **ENTER** button to store. Press the **MENU** button to exit.

All — Reset All

To select **All**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Yes** (the unit will run built-in program to reset all motors to their home positions) or **No**, press **ENTER** button to store. Press the **MENU** button to exit.

Special Functions

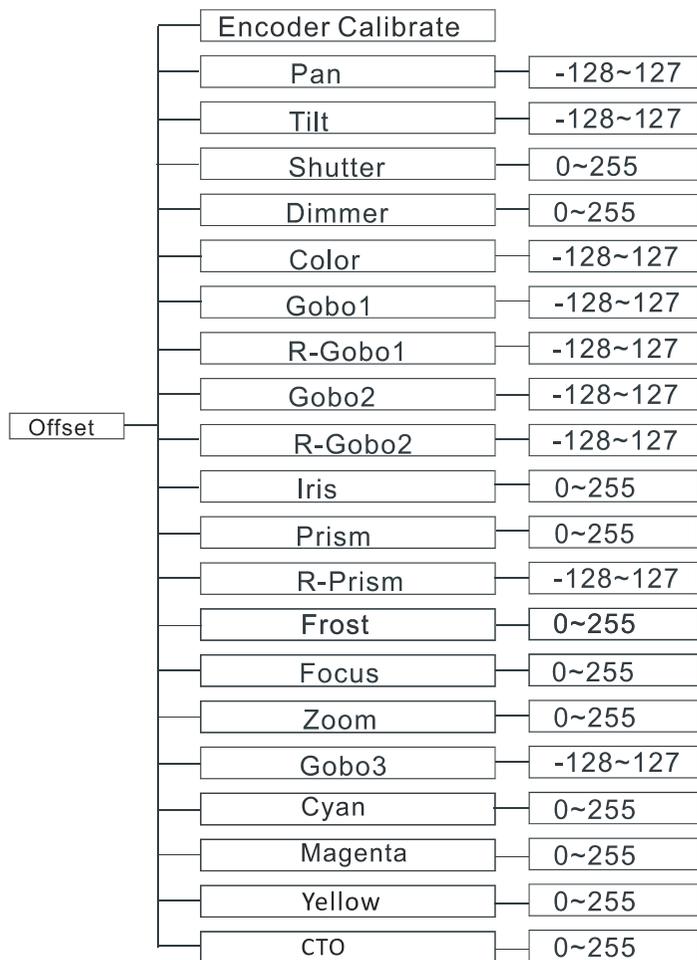
To select **Special Functions**, press the **ENTER** button to confirm, and select **Factory Settings**.

Factory Settings

To Select **Factory Setting**, press the **ENTER** button to confirm, the fixture will reset to factory settings and exit menu mode.

5.2 Home Position Adjustment

Press the **MENU** button into menu mode, then press and hold the **ENTER** button for about 3 seconds into offset mode to adjust the home position. Select the function by the **ENTER** button. Use the **UP/DOWN** button to select the submenu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button to exit.



	227 – 229 230 – 232 233 – 235 236 – 238 239 – 241 242 – 243 244 – 246 247 – 249 250 – 252 253 – 255	Animation Effect 1 Animation Effect 2 Animation Effect 3 Animation Effect 4 Animation Effect 5 Animation Effect 6 Animation Effect 7 Random Gobo or Position Random Gobo Random Position
15	0 – 10 11 – 255	GOBO WHEEL 3 SPEED: Stop Speed: slow → fast
16	0 – 255	FROST: 0% → 100%
17	0 – 10 11 – 138 139 - 255	PRISM Closed Prism Indexing Prism Rotation
18	0 – 2 3 – 126 127 – 129 130 – 253 254 – 255	R-PRISM: Stay at 0° position CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stay at 45° position
19	0 – 255	IRIS: 100% → 0%
20	0 – 255	ZOOM: Wide → narrow
21	0 – 255	FOCUS: Infinity → near
22	0 – 255	PAN: 0° → 540°
23	0 – 255	PAN FINE
24	0 – 255	TILT: 0° → 270°
25	0 – 255	TILT FINE
26	0 – 9 10 – 14 15 – 29 30 – 34 35 36 – 37	SPECIAL FUNCTIONS: No function Reset all Reset effect Reset Pan/Tilt Fan Speed Quiet Fan Speed Auto

	180 – 209 210 – 232 233 – 255	Gobo 2-5 shake, slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
12	0 – 2 3 – 125 126 – 128 129 – 252 253 – 255	GOBO WHEEL 2 ROTATION No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
13	0 – 255	GOBO WHEEL 2 ROTATION FINE
14	0 1 – 9 10 11 – 19 20 21 – 29 30 31 – 39 40 41 – 49 50 51 – 59 60 61 – 69 70 71 – 79 80 81 – 89 90 91 – 99 100 – 110 111 – 115 116 – 120 121 – 125 126 – 130 131 – 135 136 – 140 141 – 145 146 – 150 151 – 155 156 – 160 161 – 189 190 191 – 219 220 – 226	GOBO WHEEL 3 : Open Open → Gobo 3-1 Gobo 3-1 Gobo 3-1 → Gobo 3-2 Gobo 3-2 Gobo 3-2 → Gobo 3-3 Gobo 3-3 Gobo 3-3 → Gobo 3-4 Gobo 3-4 Gobo 3-4 → Position1 Position 1 Position 1 → Position 2 Position 2 Position 2 → Position 3 Position 3 Position 3 → Position 4 Position 4 Position 4 → Position 5 Position 5 Position 5 → Open Open Gobo 3-1 Gobo 3-2 Gobo 3-3 Gobo 3-4 Position 1 Position 2 Position 3 Position 4 Position 5 Open CW Rotation, fast → slow Stop CCW Rotation, slow → fast Stop

Encoder Calibrate- Encoder Calibrate home position adjustment

Enter offset mode, select **Encoder Calibrate**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the **Encoder Calibrate**, press the **ENTER** button to store. Press the **MENU** button to exit.

Pan - pan home position adjustment

Enter offset mode, select **Pan**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **-128** to **127**, press the **ENTER** button to store. Press the **MENU** button to exit.

Tilt - Tilt home position adjustment

Enter offset mode, select **Tilt**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **-128** to **127**, press the **ENTER** button to store. Press the **MENU** button to exit.

Shutter - Shutter home position adjustment

Enter offset mode, select **Shutter**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Dimmer - Dimmer home position adjustment

Enter offset mode, select **Dimmer**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Color - Color home position adjustment

Enter offset mode, select **Color**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **-128** to **127**, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo1 – Gobo1 home position adjustment

Enter offset mode, select **Gobo1**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **-128** to **127**, press the **ENTER** button to store. Press the **MENU** button to exit.

R Gobo1 – Gobo1 rotation home position adjustment

Enter offset mode, select **R Gobo1**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo2 - Gobo2 home position adjustment

Enter offset mode, select **Gobo2**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **-128** to **127**, press the **ENTER** button to store. Press the **MENU** button to exit.

R Gobo2 – Gobo2 rotation home position adjustment

Enter offset mode, select **R Gobo2**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Iris- Iris home position adjustment

Enter offset mode, select **Iris**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism – Prism home position adjustment

Enter offset mode, select **Prism**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **-128** to **127**, press the **ENTER** button to store. Press the **MENU** button to exit.

R Prism – Prism rotation home position adjustment

Enter offset mode, select **R Prism**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Frost - Frost home position adjustment

Enter offset mode, select **Frost** press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Focus - Focus home position adjustment

Enter offset mode, select **Focus**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Zoom - Zoom home position adjustment

Enter offset mode, select **Zoom** press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo3 – Gobo 3 home position adjustment

Enter offset mode, select **Gobo3**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **-128** to **127**, press the **ENTER** button to store. Press the **MENU** button to exit.

Cyan - Cyan home position adjustment

Enter offset mode, select **Cyan** press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

Magenta - Magenta home position adjustment

Enter offset mode, select **Magenta** press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

	218 – 243 244 – 247 248 – 251 252 – 255	CCW Rotation, slow → fast Random color: Fast Random color: Medium Random color: Slow
8	0 – 9 10 – 14 15 – 19 20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179 180 – 209 210 – 232 233 – 255	GOBO WHEEL 1: Open Gobo 1-1 Gobo 1-2 Gobo 1-3 Gobo 1-4 Gobo 1-5 Gobo 1-1 rotation Gobo 1-2 rotation Gobo 1-3 rotation Gobo 1-4 rotation Gobo 1-5 rotation Gobo 1-1 shake: slow → fast Gobo 1-2 shake: slow → fast Gobo 1-3 shake: slow → fast Gobo 1-4 shake: slow → fast Gobo 1-5 shake: slow → fast Gobo wheel CW Rotation, fast → slow Gobo wheel CCW Rotation, slow → fast
9	0 – 2 3 – 125 126 – 128 129 – 252 253 – 255	GOBO WHEEL 1 ROTATION: No Rotation CCW Rotation: fast → slow No Rotation CW Rotation: slow → fast No Rotation
10	0 – 255	GOBO WHEEL 1 ROTATION FINE
11	0 – 9 10 – 14 15 – 19 20 – 24 25 – 29 30 – 34 35 – 39 40 – 44 45 – 49 50 – 54 55 – 59 60 – 89 90 – 119 120 – 149 150 – 179	GOBO WHEEL 2 Open Gobo 2-1 Gobo 2-2 Gobo 2-3 Gobo 2-4 Gobo 2-5 Gobo 2-1 rotation Gobo 2-2 rotation Gobo 2-3 rotation Gobo 2-4 rotation Gobo 2-5 rotation Gobo 2-1 shake, slow → fast Gobo 2-2 shake, slow → fast Gobo 2-3 shake, slow → fast Gobo 2-4 shake, slow → fast

6.4 DMX Control

26Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	0 – 19	STROBE: Shutter closed, lamp switches to low power
	20 – 49	Shutter Open
	50 – 200	Strobe, slow → fast
	201 – 210	Shutter Open
	211 – 255	Random strobe
	2	0 – 255
3	0 – 255	CYAN: 0% → 100%
4	0 – 255	MAGENTA: 0% → 100%
5	0 – 255	YELLOW: 0% → 100%
6	0 – 255	CTO: 6000K → 3200K
7	0	COLOR: Open
	1 – 14	Open → Color 1
	15	Color 1
	16 – 29	Color 1 + Color 2
	30	Color 2
	31 – 44	Color 2 + Color 3
	45	Color 3
	46 – 59	Color 3 + Color 4
	60	Color 4
	61 – 74	Color 4 + Color 5
	75	Color 5
	76 – 89	Color 5 + Color 6
	90	Color 6
	91 – 104	Color 6 → Open
	105 – 140	Open
	141 – 145	Color 1
	146 – 150	Color 2
	151 – 155	Color 3
	156 – 160	Color 4
	161 – 165	Color 5
166 – 170	Color 6	
171 – 185	Open	
186 – 211	CW Rotation, fast → slow	
212 – 217	Stop	

Yellow - Yellow home position adjustment

Enter offset mode, select **Yellow** press the **ENTER** button to confirm. Use the **UP/DOWN** button to offset the value from **0** to **255**, press the **ENTER** button to store. Press the **MENU** button to exit.

CTO- CTO home position adjustment

Enter offset mode, select **CTO**, press the **ENTER** button to confirm. Press the **ENTER** button to store. Press the **MENU** button to exit.

5.3 Error Information

Lamp Startup Fail

It appears when there is no lamp or some wires are damaged.

Temperature Sense Error

It appears when temperature check board is damaged.

Lamp Too Hot Power Off

It appears when temperature is detected higher than 110°C. Check if the unit is properly ventilated, or fans or temperature check board may is damaged.

Lamp Too Hot Low Power

It appears when temperature is detected higher than 105°C, the unit will run on a low power level.

Maintenance Fixture

It appears when the maintenance remaining time becomes 0S, please enter menu mode and reset the time.

Lamp On Over 700 Hour

It appears when the lamp has been on over 700 hours, please turn off the lamp.

Memory Initial Fail

It appears when the memory IC is damaged.

CPU-B Error, CPU-C Error, CPU-D Error

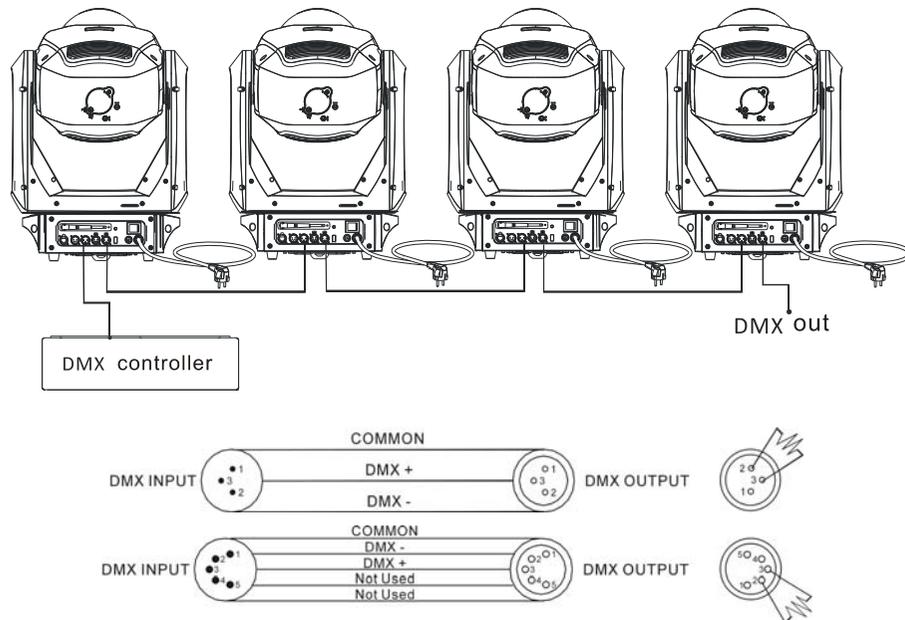
They appear when board P.C or some wires are damaged.

Pan Reset Error, Pan Encode Error, Tilt Reset Error, Tilt Encode Error, Shutter Reset Fail, Dimmer Reset Fail, Color Reset Fail, , Gobo Reset Fail, Focus Reset fail.

They may appear when turning on or resetting the unit, for some parts such as board P.C are damaged.
Please contact the qualified maintenance.

6. Control By Universal DMX Controller

6.1 DMX Connections



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable cannot be branched or split to a “Y” cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units’ power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

5. The end of the DMX 512 system should be terminated to reduce signal errors.

6. 3 pin XLR connectors are more popular than 5 pins XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

6.2 Channel Mode Setting

Enter menu mode, select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Mode**, press the **ENTER** button to confirm, present channel mode will blink on the display, use the **UP/DOWN** button to select **26 Channel**, **34 Channel**, **28 Channel**, **24 Channel** or **21 Channel** Mode, and press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

6.3 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the **MENU** button to enter menu mode, select **DMX Functions**, press the **ENTER** button to confirm, use the **UP/DOWN** button to select **DMX Address**, press the **ENTER** button to confirm, the present address will blink on the display. Use the **UP/DOWN** button to adjust the address from 1 to 512, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle one minute to exit menu mode.

Please refer to the following diagram to set the address for the first 4 units.

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
26 channels	1	27	53	79
34 channels	1	35	69	103
28 channels	1	29	57	85
24 channels	1	25	49	73
21 channels	1	22	43	64